

POROUS ADHESION PREVENTIVE MATERIAL

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PROBLEM TO BE SOLVED: To provide an adhesion preventive material for the tendon which is capable of physically isolating the tendon and the peripheral tissue thereof while having suitable biodegradability and has excellent operability, permeability of nutrient materials and safety by using a porous film consisting of a copolymer of lactic acid and caprolactone as the adhesion preventing material to be used to prevent the adhesion of the tendon when treating the damage of the tendon.

SOLUTION: A 6% dioxane solution of the copolymer of the L-lactic acid and the ε-caprolactone (MW 400,000, the weight ratio in the copolymer of the lactic acid and the ε-caprolactone: the lactic acid/the caprolactone = 55/45) is cast onto a glass plate and this glass plate is fed into a refrigerator kept at -135 deg.C where the solution is frozen. The solvent is thereafter removed in a freeze drier, by which the porous adhesion preventive material of a pore diameter of about 10 μm (a nearly uniform pore diameter and an average pore diameter 10 μm), void volume 88% and thickness 400 μm is obtained.

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